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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2000220719 A**(43) Date of publication of application: **08.08.00**

(51) Int. Cl.

**F16H 37/02**(21) Application number: **11026193**(71) Applicant: **ISUZU MOTORS LTD**(22) Date of filing: **03.02.99**(72) Inventor: **KOGA HIDETAKA**(54) **CONTINUOUSLY VARIABLE TRANSMISSION**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a continuously variable transmission miniaturized in an axial direction by simplifying a structure of an epicyclic gear mechanism disposed at a downstream side of a troidal speed-change mechanism.

**SOLUTION:** A first epicyclic gear mechanism 16 comprising a first carrier 18 connected to an input shaft 1, a first sun gear 17 connected to output discs 3, 5 and a first ring gear 25 is disposed at a downstream side of a troidal speed-change part. A double pinion with first and second epicyclic gears 20, 23 is pivotally supported to the first carrier 18. The first ring gear 25 is connectable to a second carrier 31 of a second epicyclic gear mechanism 30 through a first clutch for a low range. An axial length of the gear mechanism is shortened by a structure of the first and second epicyclic gear mechanism 16, 30. A second clutch 39 for a

high range can fix the second ring gear 37 of the second epicyclic gear mechanism 30 to a case 13.

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